



Sequence Listing

<110>Siler-Khodr, Theresa M.

<120>Non-Mammalian GnRH Analogs and Uses Thereof in Regulation of Fertility and Pregnancy

<130>P7345.2 (CIP) 6

<140>US 10/820,477

<141>2004-04-08

<150>US 10/639,405

<151> 2003-08-12

<160>16

<210>1

<211>30

<212>DNA

<213>Gallus gallus (Chicken II GnRH)

<400>1

cagcactggt cccatggctg gtaccctgga 30

<210>2

<211>10

<212>PRT

<213>Unknown

<220>

<221>mat_peptide

<222>6

<223>Chicken II GnRH Analog. MOD_RES substitution of Gly residue at 10 by aza-Gly-NH₂, ethylamide or other Gly amide. Xaa represents D-Arg, D-Leu, D-tBu-Ser, or D-Trp. MOD_RES Glu at position 1 is pyroglutamic acid.

<400>2

Glu His Trp Ser His Xaa Trp Tyr Pro Gly
5 10

<210>3

<211>30

<212>DNA

<213>Salmo salar (Salmon GnRH)

<400>3

cagcactggt cttatggctg gctgcctgga 30

<210>4

<211>10

<212>PRT

<213>Unknown

<220>
<221>mat_peptide
<222>6
<223>Salmon GnRH Analog. MOD_RES substitution of Gly residue
at 10 with aza-Gly-NH₂, ethylamide or other Gly amide. Xaa represents
D-Arg. MOD_RES Glu at position 1 is pyroglutamic acid.

<400>4
Glu His Trp Ser Tyr Xaa Trp Leu Pro Gly
 5 10

<210>5
<211>10
<212>PRT
<213>Homo sapiens (Mammalian GnRH)

<220>
<221>mat_peptide
<222>unknown
<223>MOD_RES Glu at position 1 is pyroglutamic acid.

<400>5
Glu His Trp Ser Tyr Gly Leu Arg Pro Gly
 5 10

<210>6
<211>10
<212>PRT
<213>Gallus gallus (Chicken II GnRH)

<220>
<221>mat_peptide
<222>Within brain MRNA 121-150, within brain gene 2174-2203
<223>MOD_RES Glu at position 1 is pyroglutamic acid.

<400>6
Glu His Trp Ser His Gly Trp Tyr Pro Gly
 5 10

<210>7
<211>10
<212>PRT
<213>Salmo salar (Salmon GnRH)

<220>
<221>mat_peptide
<222>unknown
<223>MOD_RES Glu at position 1 is pyroglutamic acid

<400>7
Glu His Trp Ser Tyr Gly Trp Leu Pro Gly
 5 10

<210>8
<211>30
<212>RNA
<213>Gallus gallus (Chicken II GnRH)

<400>8
gucgugacca ggguaccgac caugggaccu 30

<210>9
<211>30
<212>RNA
<213>Salmo salar (Salmon GnRH)

<400>9
gucgugacca gaauaccgac cgacggaccu 30

<210>10
<211>9
<212>PRT
<213>Unknown

<220>
<221>mat_peptide
<222>6
<223> Buserelin. MOD_RES Glu at position 1 is pyroglutamic acid.
XAA represents D-Ser (t-Bu). MOD_RES PRO residue at 9 bound to
ethylamide.

<400>10
Glu His Trp Ser Tyr Xaa Leu Arg Pro
5

<210>11
<211>9
<212>PRT
<213>Unknown

<220>
<221>mat_peptide
<222>6
<223> Leuprolide. MOD_RES Glu at position 1 is pyroglutamic acid.
XAA represents D-Leu. MOD_RES PRO residue at 9 bound to ethylamide.

<400>11
Glu His Trp Ser Tyr Xaa Leu Arg Pro
5

<210>12
<211>10
<212>PRT
<213>Unknown

<220>
<221>mat_peptide
<222>1,2,3,5,6,8,10
<223>Antide. XAA 1 is Ac-D-NaI, XAA2 is D-Cpa, XAA3 is D-Pal, XAA5 is NicLys,
XAA6 is D-NicLys, XAA8 is ILys, XAA10 is D-Ala.

<400>12

Xaa Xaa Xaa Ser Xaa Xaa Leu Xaa Pro Xaa
5 10

<210>13

<211>10

<212>PRT

<213>Gallus gallus (Chicken I GnRH)

<220>

<221>mat_peptide

<222>unknown

<223>MOD_RES Glu at position 1 is pyroglutamic acid.

<400>13

Glu His Trp Ser Tyr Gly Leu Gln Pro Gly
5 10

<210>14

<211>10

<212>PRT

<213>Lampetra genus (Lamprey GnRH)

<220>

<221>mat_peptide

<222>unknown

<223>MOD_RES Glu at position 1 is pyroglutamic acid.

<400>14

Glu His Tyr Ser Leu Glu Trp Lys Pro Gly
5 10

<210>15

<211>30

<212>DNA

<213>Clupea harengus (Herring GnRH)

<400>15

cagcactgggt cttatggctg gctgcctgga 30

<210>16

<211>10

<212>PRT

<213>Unknown

<220>

<221>mat_peptide

<222>6

<223>Herring GnRH Analog. MOD_RES substitution of Gly residue at 10 with aza-Gly-NH₂, ethylamide or other Gly amide. Xaa represents D-Arg. MOD_RES Glu at position 1 is pyroglutamic acid.

<400>16

Glu His Trp Ser Tyr Xaa Leu Ser Pro Gly
5 10